

Title (en)
HORIZONTAL WELDING METHOD AND WELDING EQUIPMENT

Title (de)
VERFAHREN ZUM HORIZONTALSCHWEISSEN UND SCHWEISSVORRICHTUNG

Title (fr)
PROCEDE DE SOUDAGE HORIZONTAL ET APPAREILLAGE DE SOUDAGE

Publication
EP 0844039 A1 19980527 (EN)

Application
EP 97920937 A 19970507

Priority
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Abstract (en)
In order to enable highly efficient welding without the generation of weld defect such as undercut, overlap, and defective meeting angle, a plurality of additive wires (5a, 5b) are inserted into a melting pool (12) during horizontal welding, a unidirectional current is made to flow between the wires, and a magnetic field (9) is used to provide a magnetic field to the melting pool substantially in a direction perpendicular to a surface of a parent metal so as to cause the melting pool (12) to generate upward (antigravitational direction) Lorentz's force (11), whereby a molten metal is lifted upward to prevent dripping of the molten metal and to improve its bead shape. <IMAGE>

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CN109967879A; CN111168194A; CN103042306A; CN109365965A; CN102152011A

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WO 9743073 A1 19971120; DE 69717774 D1 20030123; DE 69717774 T2 20030918; EP 0844039 A1 19980527; EP 0844039 A4 19990721; EP 0844039 B1 20021211; JP 3219413 B2 20011015; US 6023043 A 20000208

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